

Title (en)
SMOKE GENERATOR

Title (de)
RAUCHERZEUGER

Title (fr)
GENERATEUR DE FUMEE

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Application
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Abstract (en)
[origin: US7963507B2] The present invention relates to a method and an apparatus for forming fog by using at least one air stream connected to a tank where the air stream forms homogeneous droplets of a fluid, which droplets flow further in the air stream towards and through at least one outlet for forming a fog. The scope of the invention is to achieve a highly effective method and apparatus for generating fog with a long stand time having a small energy consumption. This can be achieved by a method and an apparatus as described in the beginning if the method further includes a first high pressure air stream that is lead to flow in a partly parallel direction to a liquid surface for forming at least one liquid sheet, which sheet brakes into droplets where a second air stream having a lower pressure transports the droplets through at least one outlet. Hereby, it is achieved that the liquid sheet moves forward continuously as it breaks up at the edges all the way around. When this liquid film breaks up, the droplets are formed with a size depending on the thickness of the liquid sheet so that most of the droplets have a very homogeneous size. The second air stream then blows out these droplets through an outlet, and a fog is formed in the surroundings of the apparatus. Because most of the droplets have a homogenous size, they can remain in the air a very long time without letting the fog break down. In this way, a very effective fog generator is achieved.

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